

# High Density Cartridge Heaters

CE



## Product Description

High Density Cartridge Heaters are made of nickel chromium resistance wire wound on MgO core. The element assembly is inserted into chrome nickel steel tube centrally and filled with MgO powder. It is then compacted into a solid mass by Swaging. Swaging increases thermal conductivity, dielectric strength and heater life.

High Density Cartridge Heaters

### Features

- ▶ Nickel resistance wire
- ▶ Various termination exit option
- ▶ Diameter from 4mm to 30mm, length from 25mm to 1200mm
- ▶ Inbuilt J type or K type thermocouple
- ▶ Maximum sheath temp 600 deg C
- ▶ Watt density 50 watts per sq inch
- ▶ Direct immersible in liquids

### Application

- ▶ Packaging machine
- ▶ Pet perform moulds
- ▶ Dies and moulds
- ▶ Hot stamping machines
- ▶ Heat sealing machines
- ▶ Glue guns
- ▶ Heating of liquids

# High Density Cartridge Heaters

## Technical Specification

Sheath Material	Chrome Nickel Steel
Sheath Temperature	750 Deg C Max.
Insulation Material	High Purity MgO
Heating Element	Ni/Cr 80:20
Thermocouple	'J' Type (Fe/K) / 'K' Type (Cr/Al) Grounded or Ungrounded
Voltage Rating	12 V to 440 V
Power Rating	Upto 150 Watts / in <sup>2</sup>
Power Tolerance	± 10%
High Voltage Strength	= 500 V – AC
Insulation Resistance	= 5 Mega ?
Current Leakage	< 0.5mA
Variation (in mm)	○ 4mm to 30mm
Minimum Length	25mm
Maximum Length	1200mm
Lead Wires	Crimped on Leads: PTFE / FG Wire Swaged in Leads: PTFE/ FG Wire
Lead Length	Standard 300mm / Longer lead length available as per requirement.
Unheated Length	5mm at the bottom end, and 10mm at the wire end. Larger lengths available on request.

Custom Lengths and Wattage available.

# High Density Cartridge Heaters

## Termination Exit Options



Type 1



Type 2



Type 3



Type 4

Custom Lengths and Wattage available.